## PATENT ABSTRACTS OF JAPAN

(11) Publication number:

11-271067

(43) Date of publication of application: 05.10.1999

(51)Int.Cl.

G08G 1/0969 G09B 29/00

G09B 29/10

(21) Application number: 10-070739

(71) Applicant : SONY CORP

(22) Date of filing:

19.03.1998

(72)Inventor: NUNOKAWA KATSUHIKO

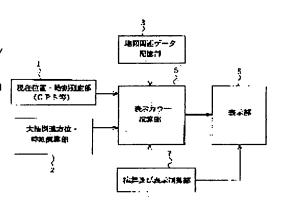
HASEGAWA KOJI

TAKEYASU MASASHI

## (54) NAVIGATOR

(57) Abstract:

PROBLEM TO BE SOLVED: To enable the indication of a map color and sky atmosphere color corresponding to the time change of natural atmosphere colors on a display. SOLUTION: A sun-relative bearing-time calculator 2 computes the sunrise and sunset times To, Ti, based on a present position (X, Y) and present time T or a moving body measured by a present position-time measuring unit 1, an indication color calculator 3 gradually change the indication colors of a map and sky background shown on a display 6, the sun-relative bearing-time calculator 2 computes the absolute bearings 60, 8i in the sun orbital plane at the sunrise and sunset times To, Ti, the background indication color shown in the display 6 is bright in the direction of the sun and dark in the opposite direction thereto, and hence the moving body can be comfortably guided and run, with visually feeling the image of the natural atmosphere on the display 6.



## LEGAL STATUS

[Date of request for examination]

27.04.2001

[Date of sending the examiner's decision of

reiection] [Kind of final disposal of application other

than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3531462

[Date of registration]

12.03.2004

[Number of appeal against examiner's

decision of rejection]

[Date of requesting appeal against examiner's

decision of rejection]

[Date of extinction of right]

Copyright (C): 1998,2003 Japan Patent Office